Hanford Facility RCRA Permit Modification Notification Form

Unit:	Permit Part & Chapter:
325 Hazardous Waste Treatment Units	Part III, Chapter 6 and Attachment 36

Description of Modification:

Part A, Form 3: Replace the Part A, Form 3, Revision 4 with the attached Part A, Form 3, Revision 4A. The Part A, Form 3, was modified to reflect the installation of the Radioactive Liquid Waste Tank system.

Replace Chapter 1.0 with attached Chapter 1.0.

Modification Class: [1,2,3]	Class 1	Class [1]1	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

A. General Permit Provisions

1. Administrative and Informational changes.

Submitted by Co-Operator:	Reviewed by RL Program Office:	Reviewed by Ecology:	Reviewed by Ecology:
A.K. Ikenberry Date 6/23/00	R.F. Christensen for Date 6/29/00	J. J. Wallace Date 8/18/00	L.E. Ruud Date 8/18/00

[1]Class 1 modifications requiring prior Agency approval.

[2] This is only an advanced notification of an intended Class [1]1, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

[3] If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to [1]1, if appropriate.

Hanford Facility RCRA Permit Modification Notification Form

Unit:	Permit Part & Chapter:
325 Hazardous Waste Treatment Units	Part III, Chapter 6 and Attachment 36

Description of Modification:

Part A, Form 3: Replace the Part A, Form 3, Revision 4 with the attached Part A, Form 3, Revision 4A. The Part A, Form 3, was modified to reflect the installation of the Radioactive Liquid Waste Tank system.
Section III.C.

S01, T04, S02, T01

The 325 Hazardous Waste Treatment Units (325 HWTUs) consist of the Shielded Analytical Laboratory (SAL) which includes Rooms 32, 200, 201, 202, and 203; the Hazardous Waste Treatment Unit (HWTU) encompassing Rooms 520 and 528 of the 325 Building, and the 325 ~~Collection/Loadout Station~~ Radioactive Liquid Waste Tank (RLWT) located in the southeast corner of the basement of the 325 Building. The 325 HWTUs began waste management operations in 1991 (SAL) and 1995 (HWTU). Up to 10,000 liters of dangerous and/or mixed waste may be stored in containers in the 325 HWTUs (S01). A maximum of 1514 liters of dangerous and/or mixed waste may be treated per day in containers in the 325 HWTUs (T04).

Liquid dangerous and/or mixed waste is transferred to tank storage via gravity drain lines located in the SAL (which drain into tank TK-1) and in Room 528 [which drain directly to the radioactive liquid waste system (RLWS)]. Tank TK-1 is drained via a jet system into the RLWS ~~then to the RLWT and The Collection/Loadout Station Tank will be utilized~~ is used to collect liquid dangerous and/or mixed waste[~~after the RLWS is closed, and will be connected to existing drain lines. This tank will~~ The RLWT transfers collected liquid dangerous and/or mixed waste to a loadout station, where mobile containers ~~will be~~ are loaded to transfer the liquid dangerous and/or mixed waste to the Double-Shell Tank System. A maximum of 12,574 liters of dangerous and/or mixed waste may be stored in tanks in the 325 HWTUs (S02). A maximum of 12,574 liters of dangerous and/or mixed waste may be treated in tanks per day in the 325 HWTUs (T01).

Dangerous and/or mixed waste treatments are generally conducted as small bench-scale operations except for in-tank treatments. Treatment processes utilized at the 325 HWTUs may include the following:

T11	Molten salt destructor	T35	Centrifugation	T55	Electrodialysis
T12	Pyrolysis	T36	Clarification	T56	Electrolysis
T13	Wet air oxidation	T37	Coagulation	T57	Evaporation
T14	Calcination	T38	Decanting	T58	High gradient magnetic separation
T15	Microwave discharge	T39	Encapsulation	T59	Leaching
T18	Other thermal treatment	T40	Filtration	T60	Liquid ion exchange
T21	Chemical fixation	T41	Flocculation	T61	Liquid-liquid extraction
T22	Chemical oxidation	T42	Flotation	T62	Reverse osmosis
T23	Chemical precipitation	T43	Foaming	T63	Solvent recovery
T24	Chemical reduction	T44	Sedimentation	T64	Stripping
T25	Chlorination	T45	Thickening	T65	Sand filter
T26	Chlorinolysis	T46	Ultrafiltration	T66	Other removal technology
T27	Cyanide destruction	T47	Other separation technology	T67	Activated sludge
T28	Degradation	T48	Absorption-molecular sieve	T69	Aerobic tank
T29	Detoxification	T49	Activated carbon	T70	Anaerobic lagoon or tank
T30	Ion exchange	T50	Blending	T71	Composting
T31	Neutralization	T51	Catalysis	T74	Thickening filter
T32	Ozonation	T52	Crystallization	T75	Trickling filter
T33	Photolysis	T53	Dialysis	T77	Other biological treatment
T34	Other chemical treatment	T54	Distillation		

Modification Class: [1,2,3]	Class 1	Class [1]1	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

A. General Permit Provisions
1. Administrative and Informational changes.

Submitted by Co-Operator:	Reviewed by RL Program Office:	Reviewed by Ecology:	Reviewed by Ecology:
A.K. Ikenberry Date 6/27/00	R.F. Christensen for Date 6/29/00	J. J. Wallace Date 8/18/00	L.E. Ruud Date 8/18/00

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[3] If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to [1]1, if appropriate.

Hanford Facility RCRA Permit Modification Notification Form

Unit:	Permit Part & Chapter:
325 Hazardous Waste Treatment Units	Part III, Chapter 6 and Attachment 36

Description of Modification:

Part A, Form 3: Replace the Part A, Form 3, Revision 4 with the attached Part A, Form 3, Revision 4A. The Part A, Form 3, was modified to reflect the installation of the Radioactive Liquid Waste Tank system.

Section IV. Description of Dangerous Waste: Corrected typographical error.

Line No.	A. Dangerous Waste No. *(enter code)*	B. Estimated Annual Quantity of Waste	C. Unit of Measure *(enter code)*	D. Processes	
				1. Process Codes *(enter)*	2. Process Description *(if a code is not entered in D(1))*
485	W T 0 1		↓	↓ ↓	↓
486	W T 0 ~~1~~ 2		↓	↓ ↓	↓

Modification Class: [1,2,3]	Class 1	Class [1]1	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

A. General Permit Provisions

1. Administrative and Informational changes.

Submitted by Co-Operator:	Reviewed by RL Program Office:	Reviewed by Ecology:	Reviewed by Ecology:
A.K. Ikenberry 6/23/00	R.F. Christensen for 6/29/00	J. J. Wallace 8/18/00	L.E. Ruud 8/18/00
A.K. Ikenberry Date	R.F. Christensen Date	J. J. Wallace Date	L.E. Ruud Date

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Hanford Facility RCRA Permit Modification Notification Form

Unit:	Permit Part & Chapter:
325 Hazardous Waste Treatment Units	Part III, Chapter 6 and Attachment 36

Description of Modification:

Part A, Form 3: Replace the Part A, Form 3, Revision 4 with the attached Part A, Form 3, Revision 4A. The Part A, Form 3, was modified to reflect the installation of the Radioactive Liquid Waste Tank system.

Section IX.: Modified Date Signed block as follows:
Revision 4 signed
00/30/1997

Section X: Modified Date block as follows:
Date Revision 4 Signed

Modification Class: [1,2,3]	Class 1	Class [1] 1	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

A. General Permit Provisions
1. Administrative and Informational changes.

Submitted by Co-Operator:	Reviewed by RL Program Office:	Reviewed by Ecology:	Reviewed by Ecology:
A.K. Ikenberry 6/23/00 Date	R.F. Christensen 6/29/00 Date for	J. J. Wallace 8/18/00 Date	L.E. Ruud 8/18/00 Date

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Hanford Facility RCRA Permit Modification Notification Form

Unit:	Permit Part & Chapter:
325 Hazardous Waste Treatment Units	Part III, Chapter 6 and Attachment 36

Description of Modification:

Part A, Form 3: Replace the Part A, Form 3, Revision 4 with the attached Part A, Form 3, Revision 4A. The Part A, Form 3, was modified to reflect the installation of the Radioactive Liquid Waste Tank system.

Figure 1: Redrawn and identification number for figure updated.

Figure 2: Redrawn and identification number for figure updated. Modified title as follows:
325 Hazardous Waste Treatment Units

Figure 3: Revised to denote RPS and RLWS and identification number for figure updated. Modified title as follows:
Location of Shielded Analytical Laboratory Tank in Room 32 and ~~Proposed~~ Location of 325 Collection/Loadout Station Tank (basement) of the 325 Building.

Figure 5: Modified title as follows:
~~Proposed~~ 325 Collection/Loadout Station Tank.

Modification Class: [1,2,3]	Class 1	Class [1]1	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

A. General Permit Provisions
1. Administrative and Informational changes.

Submitted by Co-Operator:	Reviewed by RL Program Office:	Reviewed by Ecology:	Reviewed by Ecology:
A.K. Ikenberry 4/27/00 Date	R.F. Christensen for 6/29/00 Date	J. J. Wallace for 8/8/00 Date	L.E. Ruud 8/11/00 Date

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Unit:	Permit Part & Chapter:
325 Hazardous Waste Treatment Units	Part III, Chapter 6 and Attachment 36

Description of Modification:

Part A, Form 3: Replace the Part A, Form 3, Revision 4 with the attached Part A, Form 3, Revision 4A. The Part A, Form 3, was modified to reflect the installation of the Radioactive Liquid Waste Tank system.

Photograph 1: Modified titles as follows:
Hazardous Waste Treatment Units

Photograph 2: Modified titles as follows:
Hazardous Waste Treatment Units

Photograph 3: Modified titles as follows:
Hazardous Waste Treatment Units

Photograph 6: Corrected identification number for photograph.

Photograph 8: Corrected the photo taken date as follows:
(Photo Taken ~~1979~~ 1996)

Photograph 9: Replaced photograph with current photograph of installed RLWT. Modified title as follows::
~~Proposed~~ 325 Collection/Loadout Station Tank

Modification Class: [1] [2] [3]	Class 1	Class [1]1	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

A. General Permit Provisions
1. Administrative and Informational changes.

Submitted by Co-Operator:	Reviewed by RL Program Office:	Reviewed by Ecology:	Reviewed by Ecology:
A.K. Ikenberry 6/23/00 Date	R.F. Christensen 6/29/00 Date for	J. J. Wallace 8/8/00 Date	L.E. Ruud 8/8/00 Date

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For questions or comments, contact Mike Cline at michael_w_cline@rl.gov
URL: http://www.rl.gov/rcra/approvals/4.3.1.7_rev4a_apprvl.html
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